Program Book

Short Term Internship

AP STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

FULL STACK DEVELOPMENT

An Internship Report Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

by

DEVANGAM HARATHI

(212G1A0571)

Under the Esteemed Guidance of

Dr. K. Bhargavi

Associate Professor in Computer Science and Engineering,

ALTS, Anantapur

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY AND SCIENCES

Approved by AICTE, NEW DELHI & Affiliated to J.N.T.U. Anantapur, Accredited by NAAC

Itikalapalli(v), Near S.K. University Anantapur– 515721 Andhra Pradesh

2023-2024

ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY AND SCIENCES

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Near S.K. University, Itikalapalli(v), Anantapur (v) – 515 721.A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the **"FULL STACK DEVELOPMENT"** an Internship Report submitted by **DEVANGAM HARATHI** bearing Reg.no. 212G1A0571 is the work done by her at, **International Institute of Digital Technologies** and submitted during 2023-24 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **COMPUTER SCIENCE AND ENGINEERING.**

Signature of the Supervisor

Dr. K. Bhargavi M. Tech, Ph. D
Associate Professor & HOD,
Department of Computer Science and Engineering,
Anantha Lakshmi Institute of Technology and Sciences, Anantapur.

Signature of the HOD

Dr. K. Bhargavi M. Tech, Ph. D
Associate Professor & HOD,
Department of Computer Science and Engineering,
Anantha Lakshmi Institute of Technology and Sciences, Anantapur.

Program Book

For

Short-Term Internship

Name of the Student	**:**	Devangam Harathi
Name of the College	**:**	Anantha Lakshmi Institute of Technology and Sciences
Registration Number	**:**	212G1A0571
Period of Internship	**:**	From: 13-05-2024 To: 06-07-2024
Name & Address of the Intern Organization	**:**	Internation Institute of Digital Technologies Tirupati Airport Rd, Near Celkon Company, Renigunta, Chowtour, Andhra Pradesh 517520

AN INTERNSHIP REPORT

On

FULL STACK DEVELOPMENT

Submitted in accordance with the requirement for the degree of B. Tech

Name of the College : Anantha Lakshmi Institute of Technology and Sciences

Department : Computer Science and Engineering

Name of the Faculty Guide : Dr. K. Bhargavi M. Tech, Ph.D

Duration of the Internship : From: 13-05-2024 To: 06-07-2024

Name of the Student : Devangam Harathi

Program of Study : B.Tech

Year of Study : 2021-2025

Register Number : 212G1A0571

Date of Submission :

STUDENT DECLARATION

I DEVANGAM HARATHI, a student of Internship Program, Reg. No. 212G1A0571 of the Department of Computer Science and Engineering, Anantha Lakshmi Institute of Technology and Sciences do here by declare that I have completed the mandatory internship from 13-05-2024 to 06-07-2024 in Internation Institute of Digital Technologies under the Faculty Guideship of Dr. K. Bhargavi Ph. D Department of Computer Science and Engineering, Anantha Lakshmi Institute of Technology and Sciences.

(Signature and Date)

Endorsements

Faculty Guide

Head of the Department

Principal

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that DEVANGAM HARATHI Reg. No 212G1A0571 of Anantha Lakshmi Institute of Technology and Sciences underwent an internship in International Institute of Digital Technologies from 13-05-2024 to 06-07-2024.

The overall performance of the intern during her internship is found to be Satisfactory.

Dr. Sundar Balakrishna

Authorized Signatory with Date and Seal

ACKNOWLEDGEMENTS

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of people who made it possible, whose constant guidance and encouragement crowned our efforts with success. It is a pleasant aspect that we have now the opportunity to express our gratitude for all of them.

First, I would like to thank **Dr. Sundar Balakrishna** of **International Institute of Digital Technologies** and **Anuradha Thota** of **Blackbuck Engineers Pvt. Ltd** for giving me the opportunity to do an internship within the organization.

It is with immense pleasure that we would like to express my indebted gratitude to **Dr. K. Bhargavi** Ph. D. **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**, who has guided us a lot and encouraged us in every step of the Internship. We thank her for the stimulating guidance, constant encouragement, and constructive criticism which have made it possible to accomplish the internship.

It is with immense pleasure that we would like to express my indebted gratitude to **Dr. K. Bhargavi** M. Tech, Ph. D **Associate Professor & HOD**, **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**, who has guided us a lot and encouraged us in every step of the Internship. We thank her for the stimulating guidance, constant encouragement, and constructive criticism which have it made possible to accomplish internship.

I wish to convey my special thanks to **Dr. N. RAMAMURTHY** M. Tech, Ph. D, **Principal** of **Anantha Lakshmi Institute of Technology and Sciences** for giving the required information in doing my internship. Not to forget, we thank all other faculty and non-teaching staff, and my friends who had directly or indirectly helped and supported us in completing my project in time.

We also express our sincere thanks to **Sri M. ANANTHA RAMUDU, Chairman** and **Sri M. RAMESH NAIDU**, **Vice Chairman** of Anantha Lakshmi Institute of Technology and Sciences for providing excellent facilities**.**

DEVANGAM HARATHI
(212G1A0571)

INTERNSHIP CERTIFICATE

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of A.P.)

Certificate of Completion

Certificate Id: **BBAPSCHEIIDT2024ST101156**

This is to certify that **DEVANGAM HARATHI** , bearing Reg. No: **212G1A0571**, from **Anantha Lakshmi Institute of Technology and Sciences** of **JNTU Anantapur**, has successfully completed a **Short-term internship** for **8 Weeks** on **Full Stack Development.** This internship was organized by **International Institute of Digital Technologies**, with its **industry partner Blackbuck Engineers**, in association with the **Andhra Pradesh State Council of Higher Education (APSCHE).**

Anuradha Thota
Chief Executive Officer
Blackbuck Engineers Pvt. Ltd.

Dr. Sundar Balakrishna
Director General
International Institute of Digital Technologies

Date: 24/07/2024 **Place**: Tirupati, Andhra Pradesh

CHAPTER 1: EXECUTIVE SUMMARY

Executive Summary:

This report provides a concise overview of my internship experience as a full-stack developer with a focus on front-end development and Back-end development. This executive summary highlights the learning objectives, outcomes achieved,sector of business, intern organization, and a summary of activities undertaken during the internship period.

1. Learning Objectives and Outcomes Achieved

1.1. Objectives:

a) Develop proficiency in front-end technologies such as HTML, CSS, and JavaScript.

b) Acquire knowledge of back-end technologies like server-side scripting languages (e.g., Node.js,Python, or Ruby) and databases (e.g., SQL, MongoDB).

c) Gain hands-on experience in integrating front-end and back-end technologies to build functionalweb applications.

d) Collaborate effectively within cross-functional teams and learn agile methodologies.

1.2. Outcomes:

a) Attained proficiency in front-end technologies, successfully building responsive and user-friendlyweb interfaces.

b) Developed skills in back-end technologies, including server-side scripting and database management.

c) Integrated front-end and back-end components to create functional full-stack web applications.

2. Sector of Business and Intern Organization

The internship took place in the technology sector, specifically in the field of full-stack development. The organization I interned with was a reputable software development company specializing in providing end- to- end web and mobile application solutions. The company served clients across various industries, including e- commerce, healthcare, finance, and entertainment.

3. Summary of Activities Undertaken

During the internship period, I engaged in a wide range of activities to enhance my skills and contribution ongoing projects. Some of the key activities included:

a) Collaborating with the front-end development team to create responsive and visually appealing user interfaces.

b) Developing back-end functionalities using server-side scripting languages andintegrating them with the front-end components.

In conclusion, my internship as a full-stack developer with a focus on front-end development provided invaluable hands-on experience in both front-end and back-end technologies. This internship has greatly enhancedmy skills as a full-stack developer, preparing me for a successful career in field.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Introduction of the Organization:

International Institute of Digital Technologies came into being as a comprehensive platform to offer customized cost-effective training to collegestudents and fresh graduates by professionals in the industry. We have trained 15,000+ students and the learners truly learn the value addition re-affirming the tagline "Learning Beyond Expectations".

Vision, Mission and Values of the Organization:

International Institute of Digital Technologies wants to change the status quo of prevailing employment scenario, where there is a wide mis- match between graduates looking for jobs and open positions requiring certain set of entry level skills.

International Institute of Digital Technologies vision is deeply rooted in the tenet of "Teaching a Man How to Fish". We want learners to provide meaningful contributions to society individually and collaboratively, perfecting their craft in the process.

Policy of the Organization, in relation with the intern role:

They are structured, short-term, supervised placements often focused around particular tasks or projectswith defined timescales. An internship may be compensated, non-compensated or some time may be paid. The internship has to be meaningful and mutually beneficial to the intern and the organization.

Organizational Structure:

They are structured, short-term, supervised placements often focused around particular tasks or projectswith defined timescales. An internship may be compensated, non-compensated or some time may be paid. The internship has to be meaningful and mutually beneficial to the intern and the organization.

Roles and responsibilities of the employees in which the intern is placed:

- Assist and contribute to the team
- Job Shadow
- Learn and gain experience
- Take on an increasing responsibility
- Make a career call.

Future Plans of the Organization:

International Institute of Digital Technologies wants to Enhance their Company and want to provide Employability to more people.

CHAPTER 3: INTERNSHIP PART

During my internship as a full-stack developer in the intern organization, I had a range of activities and responsibilities that allowed me to gain practical experience in the field. The following is a description of the tasks performed, working conditions, weekly work schedule for 8 weeks, and the equipment used during the internship:

1. Activities/Responsibilities:

a) Collaborating with the design team to convert wireframes and mockups into interactive web interfaces.

b) Implementing front-end functionalities using HTML, CSS, and JavaScript.

c) Ensuring cross-browser compatibility and responsiveness of web applications.

d) Incorporating user experience (UX) design principles to enhance user interactions.

e) Debugging and resolving front-end issues to improve overall performance.

f) Integrating front-end components with back-end systems through API calls.

g) Participating in code reviews and providing feedback on peers' code.

h) Assisting in the development of responsive web applications for different devices and screen sizes.

i) Collaborating with the team to meet project deadlines and milestones.

2. Working Conditions:

The working conditions were favorable, with a comfortable and well-equipped office environment. The office provided a dedicated workspace with a computer system, desk, and chair. The workplace fostered a collaborative atmosphere, encouraging open communication and teamwork.

3. Weekly Work Schedule (Example):

Week 1:

- Orientation and introduction to the company's development processes and tools.
- Familiarization with the existing projects and technologies used.
- Shadowing experienced front-end developers to understand ongoing tasks.

Weeks 2-7:

- Daily stand-up meetings to discuss progress, goals, and challenges.
- Collaborating with the design team to implement front-end interfaces.
- Developing and refining front-end functionalities.
- Collaborating with back-end developers to integrate front-end and back-end components.

Week 8:

- Wrapping up ongoing projects and ensuring all deliverables meet quality standards.
- Final presentation or review of the work done during the internship.

4. Equipment Used:

Throughout the internship, I utilized the following equipment:

- Desktop or laptop computer with necessary software and development tools.
- Text editor integrated development environments (IDEs) for coding and debugging.
- Web browsers for testing and cross-browser compatibility.

Reflection on Acquired Skills:

During the internship, I acquired a range of valuable skills as a front-end developer. These include proficiencyin HTML, CSS, and JavaScript, Django, along with hands-on experience in implementing responsive and user-friendly web interfaces. I gained insights into the principles of user experience (UX) design and applied them to enhance user interactions. Additionally, I learned how to collaborate effectively within a development team and adhere to project deadlines. The internship provided me with practical exposure to real-world development scenarios and improved my problem-solving abilities in front-end and back-end development. Overall, the internship experience greatly contributed to my growth as a skilled full stack developer.

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	PERSON INCHARGE SIGNATURE
Day -1	Introduction to the Course	Today I Know about the Overview of the Course	
Day -2	About Working of Internet	Today I Learnt how toConnect to Internet	
Day -3	About Web Development	I Came to Learn About Working in Web Development can be Ideal Career Choice	
Day -4	Installing Software (VS Code), Structure of Web Page and introduction to HTML.	I Learnt Installation Processand Architecture of a Web Browser and Basics of HTML.	
Day -5	Daily test 1 about layouts.	Today I learnt how to implement the tags in practical way.	
Day -6	About CSS Inline CSS, Internal CSS, External CSS, Margins, Paddings, Borders Font style, Styling Text, Aligning Text	Today I learn about how to implement CSS in HTML and apply to website.	

WEEKLY REPORT

WEEK-1

Objective of the Activity Done: Developing a Web Page by using some Html Tags

Detailed Report:

I have started my internship program this week, where we began with an overview of the course, including the basics of how the internet works and how to connect to it. Through the initial sessions, I came to realize that a career in web development can be an ideal choice due to the high demand for proficient developers in today's digital-centric world.

Career in Web Development:

Acquiring web development skills can lead to a promising career in the field. As a web developer, one can work for companies or clients, building and maintaining websites or web applications. Full-stack web development, which involves working with both frontend and backend technologies, is particularly valuable as it enables the creation of complete web applications.

Training and Tools:

To achieve the main objective of creating a web project, I underwent training on several web development tools and technologies. The tools introduced include Integrated Development Environments (IDEs) like Visual Studio Code, which is widely used for full-stack web development.

HTML Basics:

HTML (Hypertext Markup Language) was introduced as the foundation for structuring content on a web page. I learned about basic HTML tags such as <body>, <h1>, <h2>, <p>, and <img>. These tags are essential for organizing and formatting content, incorporating multimedia, creating forms, and applying styling through CSS (Cascading Style Sheets).

Using these basic HTML tags, I was able to create a simple web page about inspirational person details, which helped me understand how to effectively structure and format web continue.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	PERSON IN- CHARGE SIGNATURE
Day -1	Introduction to JavaScript	I Learnt about basics like functions, data types in JavaScript.	
Day -2	Brief Discussion about Java Script,Inline, JavaScript, Internal, JavaScript, External, JavaScript Accessing Elements.	I Came to know about Java Script and Type in Java Script	
Day -3	On click Events, Changing Web Site Contents and Manipulating styles with JavaScript	I Learnt about Web Site Contentsand Manipulating Styles	
Day -4	Loops, Iteration and Logiccontrol in Java Script	I Learnt about Control Statements	
Day -5	DOM Introduction Naming Conventions String methods	I Learnt about different String Methods	
Day -6	Task: Create a page having HTML, CSS, JavaScript.	Today I learnt about how to implement the HTML, CSS, JavaScript together.	

WEEKLY REPORT
WEEK-2

Objective of the Activity Done Created a Responsive Web Page using Bootstrap

Detailed Report:

This week, I gained practical experience in several key areas of web development:

CSS Flexbox:

Learned how to use CSS Flexbox for creating responsive web layouts that adapt to different screen sizes and resolutions. This allows for a more fluid and user-friendly design.

- **Bootstrap CSS Framework:**
  Explored the Bootstrap CSS framework, which is essential for building mobile-first web applications quickly and efficiently. This framework simplifies the process of creating responsive and aesthetically pleasing web pages.
- **JavaScript Basics:**
  Covered the fundamentals of JavaScript, including variables, data types, and operators. This foundational knowledge is crucial for adding interactivity to web pages.
- **JavaScript Integration:**
  Practiced using inline, internal, and external JavaScript to add dynamic functionality to web pages. This included writing scripts that enhance user interaction.
- **DOM Manipulation:**
  Learned how to access HTML elements using JavaScript through DOM (Document Object Model) methods and properties. This skill is vital for dynamically updating and manipulating web content.
- **Event Handling:**
  Mastered the technique of adding event listeners to HTML elements to trigger JavaScript functions based on user actions, such as clicks and form submissions.
- **Content Manipulation:**
  Developed the ability to manipulate the contents of web pages and dynamically change styles using JavaScript, allowing for more interactive and engaging web experiences.
- **Iteration and Logic Control:**
  Delved into iteration and logic control in JavaScript, learning how to use loops, conditional statements, and logical operators to control the flow of code execution.
- **String Methods in JavaScript:**
  Practiced using various string methods in JavaScript to manipulate and process text data, an essential skill for handling user inputs and displaying content dynamically.

- **Coding Best Practices:**
  Emphasized the importance of following naming conventions to write clean and maintainable code, which is critical for collaboration and long-term project management.

By the end of this week, I was able to create responsive web layouts, add dynamic functionality to web pages using JavaScript, and build mobile-first web applications efficiently with the Bootstrap CSS framework.

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OFTHE DAILY ACTIVITY	LEARNING OUTCOME	PERSON IN- CHARGE SIGNATURE
Day -1	Operators in JS, Objects and Howto add event listener in JS	I Learnt about Different types of Operators in JS and also Adding Event Listener in JS	
Day -2	Introduction to Backend development	I Learnt Overview of the Backend Development	
Day -3	About Node JS	I Learnt Overview of the NodeJS	
Day -4	About REPL(read evaluate print loop)	REPL Session Provides to TestSimple Java Script Code VeryQuickly in Our Convenient	
Day -5	Native Modules	I Learnt about a Set of JS Functions that are Implemented Natively for Each Platform	
Day -6	Modules in Node JS	I Came to Know About Different Types of Modules in Node JS	

WEEKLY REPORT

WEEK-3

Objective of the Activity Done: Operators in JavaScript, Objects, and Event Listeners

Detailed Report:

- **Operators in JavaScript, Objects, and Event Listeners:**
  Learned about various types of operators in JavaScript and the use of addEventListener to handle events, enhancing the interactivity of web applications.
- **Introduction to Backend Development:**
  Acquired an overview of backend development, understanding its role and importance in web application architecture.
- **Overview of Node.js:**
  Gained insights into Node.js, including its runtime environment and its significance in server-side JavaScript execution.
- **Read-Eval-Print Loop (REPL):**
  Explored the REPL environment for Node.js, which allows for rapid testing and debugging of JavaScript code snippets interactively.
- **Native JavaScript Modules:**
  Learned about native JavaScript functions implemented for different platforms, which are essential for utilizing platform-specific features.
- **Modules in Node.js:**
  Studied the various types of modules in Node.js, including built-in, third-party, and custom modules, and their roles in modularizing and organizing code.

This week provided a solid foundation in JavaScript, backend development concepts, and Node.js, with practical insights into event handling, code testing, and modular programming

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	PERSON IN-CHARGE SIGNATURE
Day -1	Implementing PATCH request and deleting a specific record in Django	I learned how to perform partial updates and delete specific records in Django	
Day -2	Introduction to authentication and security in Django	I gained an understanding of Django's authentication system and security practices	
Day -3	Implementing user registration, handling encryption for passwords and sessions	I learned how to handle user registration, password encryption, and session management in Django	
Day -4	Introduction to Django templates and views	I became familiar with Django templates and the concept of views	
Day -5	Working with Django template language and context	I learned how to use Django's template language and context for dynamic content rendering	
Day -6	Styling Django templates, using static files, and inline styles	I learned how to style Django templates using static files and inline styles	

WEEKLY REPORT

WEEK-4 (From Dt:24-06-2024 to Dt:29-06-2024)

Objective of the Activity Done: Gained practical experience with Django's features, including PATCH requests, user authentication, and template management.

Detailed Report

- **Implementing PAT:CH Requests and Deleting Specific Records in Django:**
  Learned how to perform partial updates on records and delete specific entries within a Django application, enhancing data management capabilities.
- **Introduction to Authentication and Security in Django:**
  Gained an understanding of Django's authentication system and security practices, crucial for building secure web applications.
- **Implementing User Registration, Password Encryption, and Session Management:**
  Learned how to handle user registration, encrypt passwords, and manage sessions in Django, ensuring secure and effective user management.
- **Introduction to Django Templates and Views:**
  Became familiar with Django templates and views, which are essential for rendering dynamic content and separating business logic from presentation.
- **Working with Django Template Language and Context:**
  Learned how to use Django's template language and context to render dynamic content, facilitating the creation of interactive and user-friendly web pages.
- **Styling Django Templates, Using Static Files, and Inline Styles:**
  Acquired skills in styling Django templates using static files and inline styles, which is crucial for creating visually appealing and well-designed web pages.

This week provided comprehensive insights into Django's capabilities for managing data, ensuring security, handling user interactions, and creating dynamic web content, equipping me with essential skills for effective Django development.

ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	PERSON IN CHARGE SIGNATURE
Day -1	Styling Django templates, inline styles for HTML elements, and managing static files	I learned how to style Django templates and handle static files for styling and scripts	
Day -2	Handling forms in Django, passing data to templates, and mapping data to HTML	I learned how to handle forms, pass data from views to templates, and map data to HTML elements	
Day -3	Using SQL queries with Django ORM, understanding Django querysets, and filtering data	I learned how to use Django ORM for querying and filtering data in SQL databases	
Day -4	Implementing Django conditional rendering, working with Django's template language, and using context variables	I learned about conditional rendering in Django templates and managing context variables	
Day -5	Handling user interactions in Django (forms and URL parameters), understanding Django views vs. class-based views, and using Django's built-in form handling	I learned how to handle user interactions, compare function-based and class-based views, and use Django forms	
Day -6	Final project work: Integrating frontend (HTML/CSS) with Django backend, ensuring data flow between the frontend and backend	I completed and submitted my final project, integrating frontend and backend components effectively	

WEEKLY REPORT

WEEK-5 (From Dt:01-07-2024 to Dt:06-07-2024)

Objective of the Activity Done: Enhanced skills in Django through advanced features like styling, form handling, SQL queries, and integrating frontend with backend.

Detailed Report:

- **Styling Django Templates, Inline Styles for HTML Elements, and Managing Static Files:** Learned how to style Django templates and handle static files for styling and scripts. This includes using inline styles and managing static assets to create visually appealing web pages.
- **Handling Forms in Django, Passing Data to Templates, and Mapping Data to HTML:** Gained experience in handling forms, passing data from views to templates, and mapping this data to HTML elements, which is essential for building interactive and user-driven applications.
- **Using SQL Queries with Django ORM, Understanding Django Querysets, and Filtering Data:**
  Learned to utilize Django ORM for querying and filtering data within SQL databases. This knowledge is crucial for effective data manipulation and retrieval.
- **Implementing Django Conditional Rendering, Working with Django's Template Language, and Using Context Variables:**
  Explored conditional rendering in Django templates, managing context variables, and using Django's template language to dynamically control the content displayed on web pages.
- **Handling User Interactions in Django (Forms and URL Parameters), Understanding Django Views vs. Class-Based Views, and Using Django's Built-In Form Handling:** Acquired skills in managing user interactions through forms and URL parameters, understanding the differences between function-based and class-based views, and leveraging Django's built-in form handling capabilities.
- **Final Project Work: Integrating Frontend (HTML/CSS) with Django Backend, Ensuring Data Flow Between the Frontend and Backend:**
  Completed and submitted the final project, effectively integrating frontend components with the Django backend and ensuring seamless data flow between the two.

This week provided extensive hands-on experience with advanced Django features, including styling, form handling, data querying, and frontend-backend integration, culminating in a final project that consolidated these skills.

1. React Hooks Use State Practice and De-structure Concept in ES6:

- Practice using the use State hook to manage the application state in a React app.
- Learn about the concept of de-structuring in ES6 and how it can be used to manipulate objectsand arrays in JavaScript.
- Used e-structuring to write more efficient and readable code in a React app.

2. Handling Events in React JS, Form Events, Class Components vs Hooks, Handling Multiple States inReact App, Spread Operator:

- Learn how to handle events in a React app, including click and submit events.
- Understand the difference between class components and functional components in React.
- Learn how to manage multiple states in a React app and how to use the spread operator to pass databetween components.

CHAPTER 5: OUTCOMES DESCRIPTION

Describing the work environment we have experienced

Interactions: A positive work environment encourages collaboration and an effective work environment is one where I have the opportunity to support a team with the services and abilities that meet the needs of the group with little supervision. I also enjoy a collaborative environment that allows for flexibility in how we get our work done. Based on what I've been told, I can look forward to that here.

Communication among team members. Colleagues interact with each other in a respectful and professional manner, fostering a supportive and inclusive atmosphere. Teamwork and cooperation are promoted, and individualsare encouraged to share ideas, seek feedback, and provide constructive criticism.

Facilities: A well-equipped work environment provides the necessary tools and resources for employees to perform their tasks efficiently. This includes access to computers, software, internet connectivity, and other relevant technology. Additionally, comfortable workstations, ergonomic furniture, and adequate lighting contribute to a conductive working atmosphere. Meeting rooms and common areas are available for discussions and collaboration.

Maintenance: Regular maintenance and upkeep of the work environment are essential to ensure a safe and functional workspace. This includes regular cleaning, servicing of equipment, and addressing any infrastructure issues promptly. A responsible maintenance team is in place to handle repairs and maintenance requests from employees.

Clarity of Job Roles: Clarity in job roles is crucial for smooth operations and effective coordination within an organization. Each employee should have a clear understanding of their responsibilities, tasks, and expectations.Job descriptions, organizational charts, and regular communication from management help in providing clarity regarding roles and reporting structures. This clarity minimizes confusion, enhances productivity, and enables employees to focus on their assigned tasks.

Discipline is highly valued, and employees are expected to adhere to company policies and guidelines. Time management is emphasized to ensure projects and tasks are completed within deadlines. There is a focus on maintaining harmonious relationships among team members, fostering socialization and creating a supportive atmosphere.

Describing the real time technical skills we have acquired

HTML/CSS: HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) are foundational languagesfor building and styling web pages. HTML is used for structuring web content, while CSS is used for designing thelayout and visual appearance.

JavaScript: JavaScript is a versatile programming language that adds interactivity and dynamic functionality to web pages. It is widely used for client-side scripting, handling events, manipulating the DOM (Document Object Model), and creating interactive web applications.

Front-end Frameworks: Frameworks like React.js, Angular JS, and Vue.js provide pre-built components and tools to streamline front-end development. They facilitate building responsive, scalable, and interactive web applications.

Back-end Development: Proficiency in a back-end programming language such as Python, Ruby, PHP, or Node.jsis essential for implementing server-side logic, managing databases, handling user authentication, and enabling server-client communication.

Databases: Familiarity with database management systems (DBMS) like MySQL, Postgre SQL, or Mongo DB is crucial for storing, retrieving, and manipulating data in web applications.

Responsive Web Design: Designing websites that adapt and provide an optimal user experience across various devices and screen sizes is essential. Knowledge of responsive web design principles and CSS frameworks like Bootstrap can help achieve this.

Web Performance Optimization: Understanding techniques for optimizing web page loading speed, minimizingfile sizes, and improving overall performance is crucial for delivering efficient and user-friendly web experiences.

It's important to note that web development is a broad and continuously evolving field, and the specific technical skills required may vary depending on the project, company, or job role. Continuous learning and keeping up with industry trends and emerging technologies are essential for web developers to stay competitive in the field.

Describing the managerial skills we have acquired

The following are the managerial skills that I acquired:

Planning: The ability to set objectives, create strategies, and outline tasks and timelines to achieve goals effectively.

Leadership: The capacity to inspire and motivate a team, provide guidance and direction, and make informeddecisions to drive collective efforts toward a common vision.

Teamwork: The skill to collaborate with others, faster a positive work environment, promote open communication,and encourage the sharing of ideas and responsibilities.

Behavioral Skills: The ability to exhibit professionalism, integrity, empathy, and respect in interactions with team members and stakeholders.

Workmanship: The dedication to producing high-quality work, attention to detail, and commitment to continuousimprovement and professional development.

Productive Use of Time: The skill to prioritize tasks, manage deadlines, and optimize time management techniques to maximize efficiency and accomplish objectives.

Competency Improvement: The commitment to acquiring new knowledge, skills, and competencies on a regularbasis through self-learning, training programs, or seeking feedback to enhance job performance.

Goal Setting: The proficiency to define clear and measurable goals, align them with organizational objectives, andcreate action plans to track progress and achieve desired outcomes.

Decision Making: The ability to analyze information, consider alternatives, weigh pros and cons, and make well-informed decisions based on critical thinking and problem-solving skills.

Performance Analysis: The skill to assess individual and team performance, identify strengths and areas for improvement, provide constructive feedback, and implement strategies for enhancing overall productivity.

These managerial skills are crucial for effective leadership and contribute to the success of teams and organizations. However, it's important to note that the development and application of these skills may vary depending on the specific industry, context, and individual preferences

Describing how I enhance my abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Group discussions can be extremely beneficial to any learning environment, providing a space for critical thinking, open discussion, and diverse opinions. Not only do they provide individuals with the opportunity to develop their communication and listening skills, but they also help foster collaboration and creativity in students.

During the discussion, the leader pays attention to the flow of the conversation while monitoring time limits, encouraging Participation, and helping to build off individual ideas proffered by students. Following the discussion,the leader should debrief and reflect, summarizing key points for future reference.

Group discussion offers a variety of advantages, both practical and philosophical. It helps students master communication and collaboration skills, utilizes every participant's strengths encourages active engagement from all members to avoid monopolizing the conversation, builds critical thinking and meta-cognition, allows for different perspectives and experiences to be adequately expressed, and fosters a sense of unity within the group.

Keep members energized through stimulating, quality discussions around cutting-edge issues. Make your ideas visible and tangible by building prototypes, or drawing diagrams to create clarity and understanding. Provide an infrastructure and resources that enable learning, communication and collaboration. Make your work visible and accessible.

Steps to enhance abilities in group discussions:

- Keep the group small when you need to make an important decision.
- Choose a heterogenous group over a homogenous one (most of the time).
- Appoint a strategic dissenter.
- Collect opinions independently.
- Provide a safe space to speak up.
- Don't over-rely on experts.
- Share collective responsibility.

Describing the technological developments I have observed and relevant to the subject area of training

Artificial Intelligence (AI): AI has had a profound impact across various industries, including training and education. AI-powered chat bots and virtual assistants have become increasingly sophisticated, enabling personalized learning experiences, automated assessments, and intelligent tutoring systems.

Machine Learning (ML): ML algorithms allow systems to automatically learn and improve from data without being explicitly programmed. In training, ML can help analyze large datasets, identify patterns, and make predictions, enhancing instructional design and personalization.

Virtual and Augmented Reality (VR/AR): VR and AR technologies offer immersive and interactive experiences for training purposes. They can simulate real-world scenarios, enhance skills development, and provide hands-on training in a safe and controlled environment.

Learning Management Systems (LMS): LMS platforms have evolved to provide comprehensive solutions for managing and delivering training content. They enable organizations to create, track, and assess training programs, facilitate collaboration, and provide analytics on learner performance.

Mobile Learning: The ubiquity of mobile devices has led to the rise of mobile learning or m-learning. With the help of mobile apps, learners can access training materials anytime, anywhere, and engage in bite-sized learning modules, quizzes, and interactive content.

Data Analytics: The ability to collect and analyze data generated during training programs can provide valuable insights into learner behavior, performance, and training effectiveness. Data analytics helps optimize training strategies, identify knowledge gaps, and personalize learning experiences.

Video Conferencing and Webinars: Technologies such as Zoom, Microsoft Teams, and other video conferencing platforms have become integral to remote training and virtual classrooms. They enable real-time communication, collaboration, and interactive sessions with participants from different locations.

Adaptive Learning Systems: Adaptive learning systems use technology to tailor instruction based on individual learner needs and preferences. By leveraging data and analytics, these systems can deliver personalized content, assessments, and recommendations, optimizing the learning experience.

It's important to note that these technologies continue to evolve rapidly, and new advancements may have emerged since my knowledge cutoff date. Staying updated with the latest technological developments in the training field is crucial for leveraging digital tools effectively.

Student Self Evaluation of the Short-Term Internship

Student Name	**:** DEVANGAM HARATHI
Registration No	**:** 212G1A0571
Term of Internship	**:** 2 months
Date of Evaluation	**:**
Institution Name &Address	**:** ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY & SCIENCES, Itikalapalli(V), Near SKU, Anantapur (Dist.), 515721, AP.
Name & Address of the Supervisor with Mobile Number	**:** Dr. K. Bhargavi M. Tech, Ph. D ALTS,

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1) Oral communication	**1**	**2**	**3**	**4**	**5**
2) Written communication	**1**	**2**	**3**	**4**	**5**
3) Initiative	**1**	**2**	**3**	**4**	**5**
4) Interaction with staff	**1**	**2**	**3**	**4**	**5**
5) Attitude	**1**	**2**	**3**	**4**	**5**
6) Dependability	**1**	**2**	**3**	**4**	**5**
7) Ability to learn	**1**	**2**	**3**	**4**	**5**
8) Planning and organization	**1**	**2**	**3**	**4**	**5**
9) Professionalism	**1**	**2**	**3**	**4**	**5**
10) Creativity	**1**	**2**	**3**	**4**	**5**
11) Quality of work	**1**	**2**	**3**	**4**	**5**
12) Productivity	**1**	**2**	**3**	**4**	**5**
13) Progress of learning	**1**	**2**	**3**	**4**	**5**
14) Adaptability to organization's culture/policies	**1**	**2**	**3**	**4**	**5**
15) OVERALL PERFORMANCE	**1**	**2**	**3**	**4**	**5**

Signature of the Student

Evaluation Of the Supervisor of the Institution

Student Name	**:** DEVANGAM HARATHI
Registration No	**:** 212G1A0571
Term of Internship	**:** 2 months
Date of Evaluation	**:**
Institution Name &Address	**:** ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY & SCIENCES, Itikalapalli(V), Near SKU, Anantapur (Dist.), 515721, AP.
Name & Address of the Supervisor with Mobile Number	**:** Dr. K. Bhargavi M. Tech, Ph. D ALTS,

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the student's self-evaluation Rating Scale:1 is lowest and 5 is highest rank

1) Oral communication	**1**	**2**	**3**	**4**	**5**
2) Written communication	**1**	**2**	**3**	**4**	**5**
3) Initiative	**1**	**2**	**3**	**4**	**5**
4) Interaction with staff	**1**	**2**	**3**	**4**	**5**
5) Attitude	**1**	**2**	**3**	**4**	**5**
6) Dependability	**1**	**2**	**3**	**4**	**5**
7) Ability to learn	**1**	**2**	**3**	**4**	**5**
8) Planning and organization	**1**	**2**	**3**	**4**	**5**
9) Professionalism	**1**	**2**	**3**	**4**	**5**
10) Creativity	**1**	**2**	**3**	**4**	**5**
11) Quality of work	**1**	**2**	**3**	**4**	**5**
12) Productivity	**1**	**2**	**3**	**4**	**5**
13) Progress of learning	**1**	**2**	**3**	**4**	**5**
14) Adaptability to organization's culture/policies	**1**	**2**	**3**	**4**	**5**
15) OVERALL PERFORMANCE	**1**	**2**	**3**	**4**	**5**

Signature of the Supervisor

Evaluation Of the Supervisor of the Intern Organization

Student Name	**:** DEVANGAM HARATHI
Registration No	**:** 212G1A0571
Term of Internship	**:** 2 months
Date of Evaluation	**:**
Organization Name &Address	**:** INTERNATIONAL INSTITUTE OF DIGITAL TECHNOLOGIES, Tirupati Airport Rd, Near Celkon Company, Renigunta, Chowtour, Andhra Pradesh 517520
Name & Address of the Supervisor with Mobile Number	**:** Mr. Aquib Ajani, International Institute of Digital Technologies

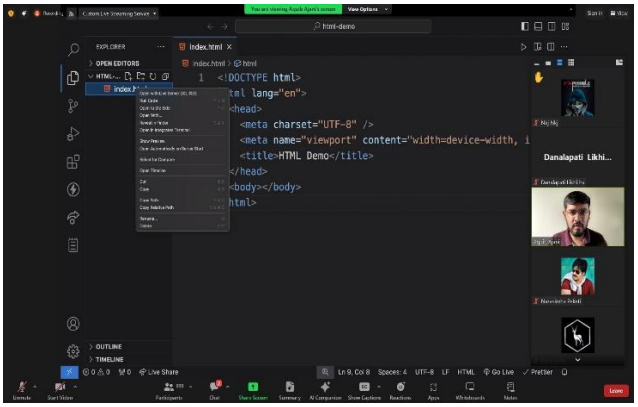
Please rate the student's performance in the following areas:

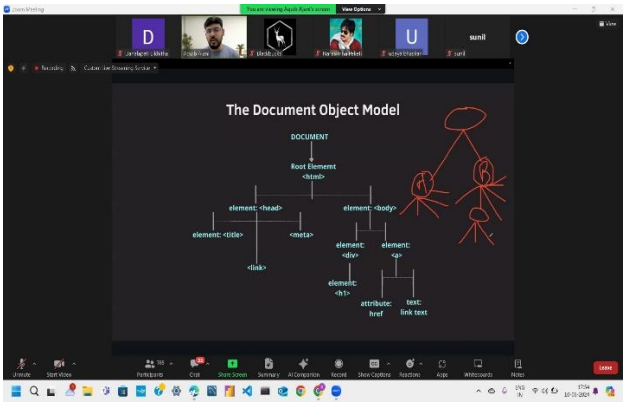
Please note that your evaluation shall be done independent of the student's self-evaluation Rating Scale:1 is lowest and 5 is highest rank

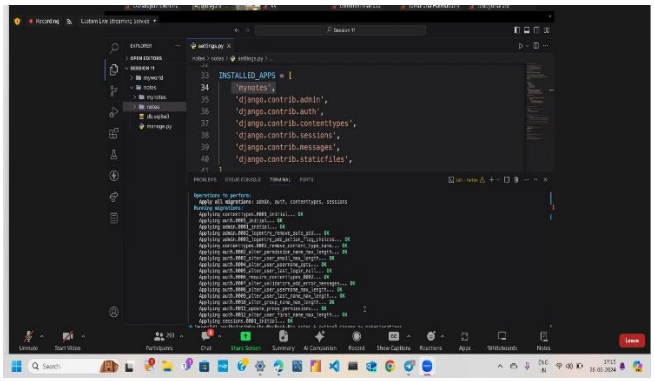
1) Oral communication	**1**	**2**	**3**	**4**	**5**
2) Written communication	**1**	**2**	**3**	**4**	**5**
3) Initiative	**1**	**2**	**3**	**4**	**5**
4) Interaction with staff	**1**	**2**	**3**	**4**	**5**
5) Attitude	**1**	**2**	**3**	**4**	**5**
6) Dependability	**1**	**2**	**3**	**4**	**5**
7) Ability to learn	**1**	**2**	**3**	**4**	**5**
8) Planning and organization	**1**	**2**	**3**	**4**	**5**
9) Professionalism	**1**	**2**	**3**	**4**	**5**
10) Creativity	**1**	**2**	**3**	**4**	**5**
11) Quality of work	**1**	**2**	**3**	**4**	**5**
12) Productivity	**1**	**2**	**3**	**4**	**5**
13) Progress of learning	**1**	**2**	**3**	**4**	**5**
14) Adaptability to organization's culture/policies	**1**	**2**	**3**	**4**	**5**
15) OVERALL PERFORMANCE	**1**	**2**	**3**	**4**	**5**

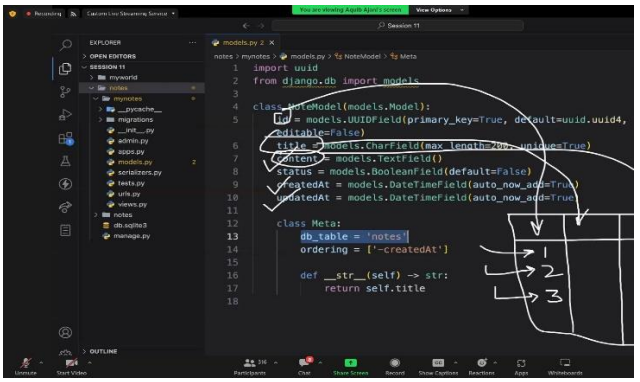
Signature of the Supervisor

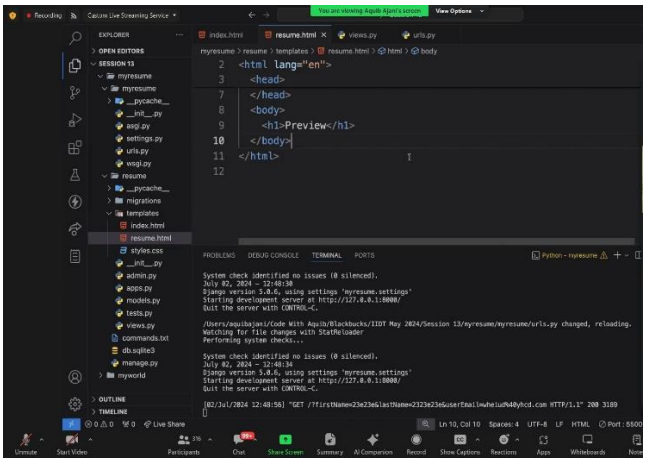
Photos and Links

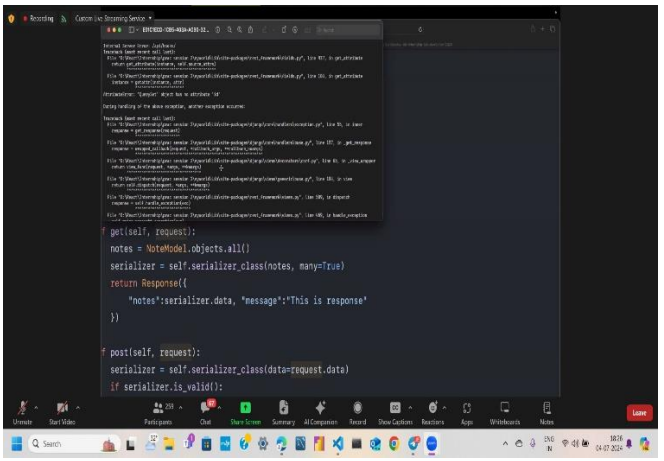


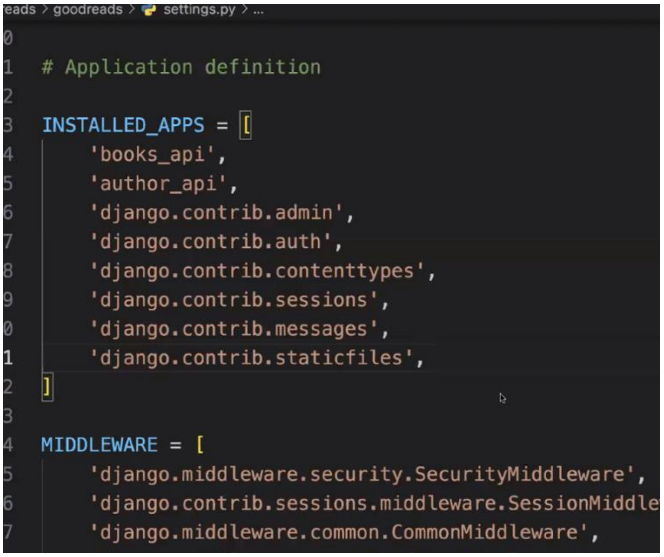


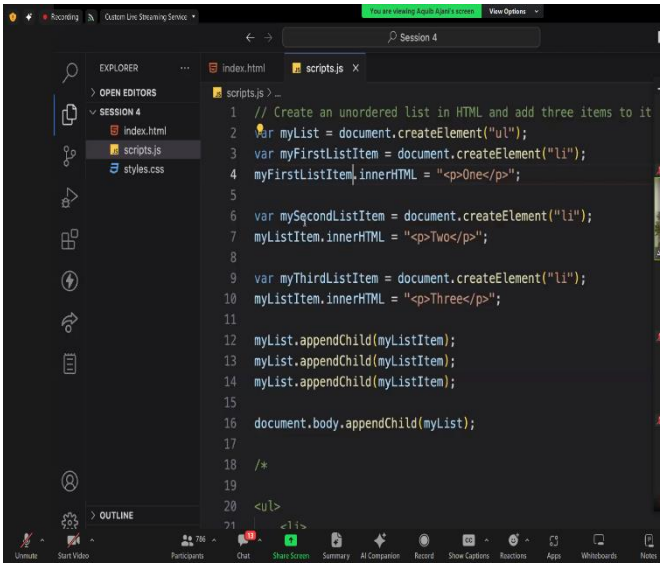


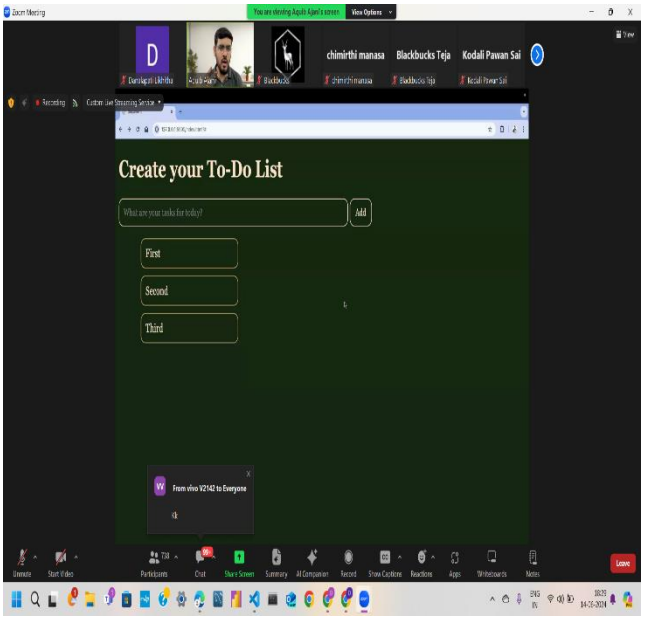


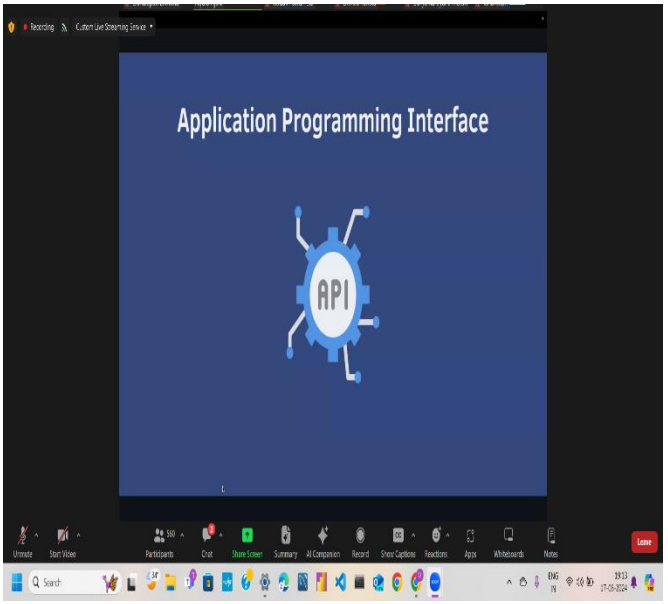












Session links : https://youtube.com/live/DrERomnUBVk?feature=share
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